REC'D **2 7 MAR 2006**

WIPO PCT

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PC-21017808	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/SE2004/001966	International filing date *(day/month/year)* 21-12-2004	Priority date *(day/month/year)* 22-12-2003

International Patent Classification (IPC) or national classification and IPC

See Supplemental Box

Applicant

Saab Xperientia AB et al

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of __6__ sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

   a. ☒ *(sent to the applicant and to the International Bureau)* a total of __2__ sheets, as follows:

   ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

   ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

   b. ☐ *(sent to the International Bureau only)* a total of (indicate type and number of electronic carrier(s))
   _____ , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

   ☒ Box No. I   Basis of the report

   ☐ Box No. II   Priority

   ☐ Box No. III   Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

   ☐ Box No. IV   Lack of unity of invention

   ☒ Box No. V   Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

   ☐ Box No. VI   Certain documents cited

   ☐ Box No. VII   Certain defects in the international application

   ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 16.06.2005	Date of completion of this report 16.03.2006
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Patrik Rydman/MN Telephone No. +46 8 782 25 00

Form PCT/IPEA/409 (cover sheet) (April 2005)

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**

Continuation of: Cover sheet

International patent classification (IPC)

G06Q 10/00 (2006.01)

Box No. I	Basis of the report

1. With regard to the **language**, this report is based on:

☐ the international application in the language in which it was filed

☒ a translation of the international application into __English__ ,
which is the language of a translation furnished for the purposes of:

    ☐ international search (Rules 12.3(a) and 23.1(b))

    ☒ publication of the international application (Rule 12.4(a))

    ☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☐ the international application as originally filed/furnished

☒ the description:

    pages __1-24__ as originally filed/furnished

    pages* _____ received by this Authority on _____

    pages* _____ received by this Authority on _____

☒ the claims:

    pages _____ as originally filed/furnished

    pages* _____ as amended (together with any statement) under Article 19

    pages* __1-2__ received by this Authority on __16.06.2005__

    pages* _____ received by this Authority on _____

☒ the drawings:

    pages __1/8-8/8__ as originally filed/furnished

    pages* _____ received by this Authority on _____

    pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) -- see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

    ☐ the description, pages _____

    ☐ the claims, Nos. _____

    ☐ the drawings, sheets/figs _____

    ☐ the sequence listing *(specify)*: _____

    ☐ any table(s) related to the sequence listing *(specify)*: _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

    ☐ the description, pages _____

    ☐ the claims, Nos. _____

    ☐ the drawings, sheets/figs _____

    ☐ the sequence listing *(specify)*: _____

    ☐ any table(s) related to the sequence listing *(specify)*: _____

* *If item 4 applies, some or all of those sheets may be marked "superseded."*

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1 – 8	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1 – 8	NO
Industrial applicability (IA)	Claims	1 – 8	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

The invention according to the application aims at providing a system and a method for associating time with specific tasks in order to provide a user with the possibility to overview the periods of time spent on said different tasks.

The object of the claimed invention is accomplished by arranging sensors on a person or objects, said sensors regularly detecting the location of the person or object, collecting information from said sensors, storing the information in a context log, processing the information and presenting the processed information in a context graph. More concisely expressed; the sensors attached a person provides a system with data about where said person is at a specific time and the system presents the information in a graph.

Reference is made to the following documents cited in the international search report:
D1: US, 5682142, A
D2: US, 2002/145559, A1
D3: US, 2003/013459, A1
D4: US, 6054928, A
D5: US, 2003/154293, A1
D6: US, 2002111887, A1
D7: H.P.W. Beadle, G.Q. Maguire, Jr., and M.T. Smith. Using location and environment awareness in mobile communications. In Proceedings of the EEE/IEEE International Conference on Information, Communications, and Signal Processing, pages 1781-1785, Singapore, September 1997. IEEE.
D8: US, 6349327, B1
D9: US, 2003/0208459, A1

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

Document D1 discloses a system for identification and surveillance of employees and tools comprising wireless communication, sensors, storage means and means for processing data.

Document D2 discloses a system for the surveillance of with regard to time and location.

Documents D3-D6 disclose different systems for tracking/logging persons within defined premises with regard to time and location.

Document D7 discloses (see paragraph 5.2) a system including a so called diary agent and badges arranged on persons. The diary agent records all places a badge wearer goes to during a day, how long the wearer spends at the location and who else is at the same location (indicating a meeting). A badge wearer may have an online diary file containing appointment and information about actual meetings that have taken place.

Documents D8 and D9 disclose systems making use of contexts for the cooperation between users without using tags/badges or sensors.

Except for administrative features and features involving pure presentation of information, the subject matter of claims 1 and 5 only differs from what is disclosed by document D7, which shows a systems for the tracking/surveillance/logging of people with regards to other people or location and is considered to best represent the prior art, in that it explicitly states that the information about the person's position is graphically presented and that, in the graphical presentation, the activity (meeting, position) of the person is associated with a time period.

Considering the fact that the system of document D7 makes use of a diary, i.e. a graphical presentation of a person's activities associated with time periods, it is obvious to the

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

skilled person that the stored information is presented graphically and associated to time periods. Said features are, thus, implicitly expressed in document D7.

The subject matter of independent claims 1 and 5, therefore, only differs from what is disclosed by document D7 by purely administrative features and is not considered to involve an inventive step.

The subject matter of dependent claims 2-4 and 6-8 only differs from what is described in document D7 by administrative features and cannot be considered inventive.

Therefore, the invention according to claims 1-8 is novel and industrially applicable, but does not involve an inventive step.

The Swedish Patent Office
PCT International Application

1

AMENDED CLAIMS

1.   A system for associating time with a specific task, comprising

a plurality of sensors arranged on a person or an object and the person's/object's surroundings, said
5   sensors regularly detecting location of said person/object, any additional persons/objects in said location, and any activity performed in said location,

communication means arranged to collect and to store data from said sensors in a context log relating to said
10   person/object,

processing means arranged to select and process data from said context log and to generate a context graph displaying location and/or activity for said person/object as a function of time, and
15   presentation means for making said context graph visually accessible,

c h a r a c t e r i z e d   i n

selection means for marking a time period in said context graph, and for associating said time period with
20   a representation of said task appearing on said presentation means.

2.   System according to claim 1, wherein said processing means further are arranged to calculate the total of all marked time during a day for tasks belonging
25   to a specified working account, and wherein said presentation means are arranged to present said calculated time adjacent said context graph.

3.   System according to claim 2, wherein said processing means further are arranged to adjust a
30   precalculated time for the working account in accordance with said calculated total time, and wherein said presentation means are arranged to present said adjusted time adjacent said context graph.

4.   System according to any one of the preceding
35   claims, wherein said processing means are arranged to

AMENDED SHEET

2

receive information about documentation associated with
data in said context graph, and to catalogue said
documentation based on its association with said context
graph.

5   5.   A method for associating time with a specific
task, comprising
        detecting, by means of a plurality of sensors
arranged on a person or an object and the
person's/object's surroundings, a location of said
10 person/object, any additional persons/objects in said
location, and any activity performed in said location,
        collecting and storing data from said sensors in a
context log relating to said person/object,
        selecting and processing data from said context log
15 and generating a context graph displaying location and/or
activity for said person/object as a function of time,
and
        making said context graph visually accessible,
        c h a r a c t e r i z e d i n
20   marking a time period in said context graph, and
        associating said time period with a representation
of said task appearing on said presentation means.
        6.   Method according to claim 5, further comprising
calculating the total marked time during a day for tasks
25 belonging to a specified working account, and presenting
said calculated time adjacent said context graph.
        7.   Method according to claim 6, further comprising
adjusting a precalculated time for the working account in
accordance with said calculated total time, and
30 presenting said adjusted time adjacent said context
graph.
        8.   Method according to any one of the claims 5-7,
further comprising receiving information about
documentation associated with data in said context graph,
35 and cataloguing said documentation based on its
association with said context graph.